

no 102 C.

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An
Inaugural Essay
on
Intermittent Fever
By
Peter Mitter
Pennsylvania

Dated March 25 1824
W. S. H.
Dean

Perhaps in the whole Catalogue of human diseases
no one has been more fully described or frequently
discussed, than the Intermittent Fever.

In most parts of our Country it is one of the first
complaints attracting the attention of the
Student, and continually presenting to the
notice of almost every Practitioner. Yet notwithstanding
its frequency of occurrence, and
our intimacy with its symptoms, and treatments,
the exact nature of its causes has never been fully
understood. I say causes for I think it will
be readily admitted that it may be produced
by more than one cause.

From time immemorial Intermittent
Fever has been Considered as depending nearly
altogether for its existence on Miasma or
Marsh Effluvia. I think this idea will not be
tenable by any one, who will consider the
diversity of Climates and Circumstances un-

under which this disease has appeared among us for
the last three years, and during seasons of so totally
different & diversified a nature. That Marsh effluvia
may produce this Complaint I make no doubt, nor
I believe wherever this effluvium abounds, it will
to a certainty create more or less of it. At the same
time it appears impossible to attribute all the
distrainment we have had for the last few years
to Marsh Miasmata. In fact I have known its
prevalence in such situations, where no one could
believe it possible noxious effluvia could be the
Cause, and whence (within the last three years)
it has been wholly unknown for thirty years past.
I allude particularly to that fine tract of Country
ranging from the Schuylkill on the West to the
Delaware on the East. Commencing at the Pine-
brook and stretching North East through the
County of Bucks. this Range is perhaps as fine
and salubrious as any part of our Country, the

the present situation in which we find
ourselves and you will be very welcome
to have a hand in such a project.
We have been mostly concerned with
and now the question is what
other projects there may be in
connection with our own and in particular
of our neighbors. I am not
sure what would be the best way to
do this, but I think it would be
best to have a meeting where
we can talk over our ideas and
possibly come to some conclusion
as to what would be the best way to
do this.

Rreams are for the most part bold and rapid in their course, confined to their channels steep and precipitous banks, forming but little or no meadow or marshy ground, not sufficient to generate enough effluvia to injure the Country to any extent. Over much of this tract I have travelled on foot and have been induced to consider it as one of the strong and almost inaccessible fortresses of Health. Yet that this few parts of our Country suffered more from the Intermittent. I am also acquainted with some parts which have long been noted for the prevalence of this complaint, which escaped nearly altogether during the general invasion last summer, Salem S. J. is a remarkable instance of this nature, the last Invasion when the disease was ravaging every other part of the State Salem hitherto the very ridges of "fever & ague", experienced almost an entire exemption. This is more extraordinary viewing the situation of this little town surrounded as it is by extensive marshes.

Meadows and ponds of stagnant water. Inhabiting this location during the last summer it appeared to me if Miasma had claim indisputable sovereignty over any place upon Earth, surely here was the spot. Yet as above stated Salem remained almost free from the scourge.

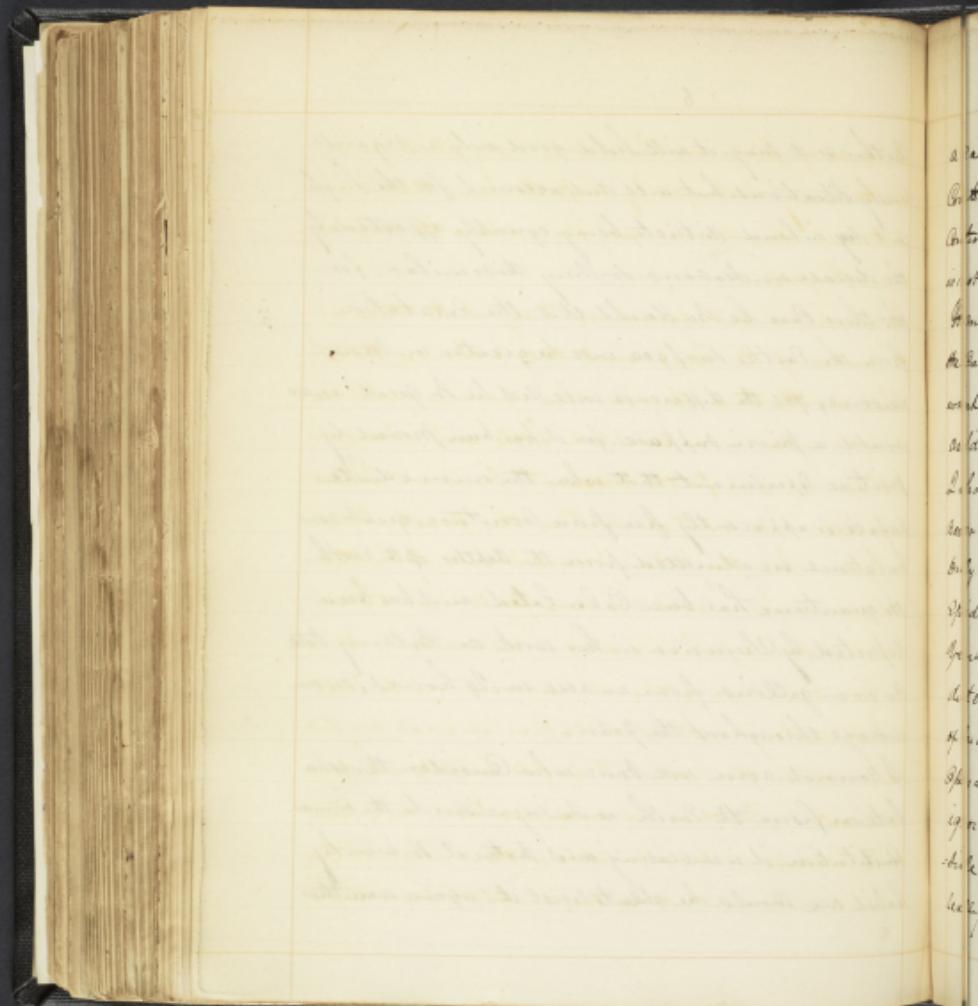
Another circumstance has forcibly presented to my mind opposing the idea of unity in the cause of Intermittent fevers, viz; the remarkable difference of the summers of 22 and 23. The summer and first autumn months of 22 were extraordinary for their great heat & dryness so much in places the danger to our domestic animals seemed really imminent from the scarcity of pasture and the diminution of the waters. (the preceding summer also was of this kind tho' not so uniformly hot and dry) in this then the summer of 22 the Inter and remittent fevers (for they were much alike both of a bilious nature and frequently running into each

other) paraded to a great degree the Western and Middle States. The summer of 23 was the exact Counterpart of the two preceding - uncommonly mild and pleasant in temperature, of no occasion was the heat or dryness of sufficient duration to injure the herbage or affect the wings. yet behold under every diversity - the same Disease raging through the same territories, possessing the same attributes, and stamped by the same Characteristics. There was this difference however, it commenced for the most part a month earlier rather more highly bilious and I think when once it had hold on a patient it was rather more tenacious - not more obstinate & difficult of cure but more apt to recur when cured.

It may be said by some that the difference of the seasons of 22 and 23 operating in a different way would ultimately produce precisely the same effect of the marshes and low grounds enabling them to ingesta the same quantities of deleterious effluvia

Be this as it may - it will hold good only as regards
moist situations but will not account for the high
and dry in land districts, being equally affected by
the disease in seasons so very dissimilar, for
then there can be no doubt that the Exhalation
from the Earth's surface will be greater in moist
seasons, yet the difference will not be so great as we
would a priori suppose, for it has been proved by
positive Experiment that when the immediate
surface is apparently free from moisture, great ex-
halations are admitted from the depths of the earth,
the quantum has been Calculated and has been
reported by Sumner in his work on Botany totalling
10000 gallons from an acre in 24 hours, on an
average throughout the year.

I cannot agree with Dr. [unclear] who considers the exha-
lation from the earth is so injurious to the human
constitution it is unnecessary and natural to even by
habit we would be able to resist it. Again were this



a cause of fever we should in every situation be continually destroyed by its effects, seeing that it is in continual operation in every place where the surface is not frozen.

It might be considered as I object to these as the causes of this complaint, that I should state what are the true causes, this indeed would be as little as could be expected. Little as it is however I shall waive it for the present, for as yet I have never been able to satisfy myself this point. I will only say when the Intermittent fever exists in the epidemic form as it has done for the last three years, it seems probable that it depends on a distemperature of the atmosphere, but the cause of such distemperature, its nature or exact modus operandi on the system, I confess myself wholly ignorant. The theory of microculeæ is only plausible because we know so little of them whether they really exist or not, that we are disabled from dispro-

disproving it, by any positive facts, and indeed this appears pretty much the amount of all we can say on the vague and uncertain theory of distemperature of the air as a Cause of this fever. Some have supposed all Epidemics to depend on Causes of this Nature. this is making the atmospheric air subject to very many and diversified distempersities. and yet we know the most accurate Chemists have never been able to discover these changes by thingenious experiments. On this subject I Could wish to enlarge but being altogether speculative, it would occupy more time than in propriety Could be allowed in a paper of this nature.

Set the cause of Intermittent Fever be what it may I am utterly at a loss to say in what manner the peculiar features of the disease are induced acting in the first instance on that prime mover, And Centre of Vitality the stomach - to whose myste-

Dear Sir or Madam, I am writing you to thank you for your
kindness to me. I am a young man who has just graduated
from college and I am looking for a job. I have been
looking at various websites and I have found your website
to be very useful. I have applied for several jobs through
your website and I have received some responses. I am
very grateful for your help and I would like to thank you
again for your kindness. I hope to hear from you soon.
Yours sincerely,
John Smith

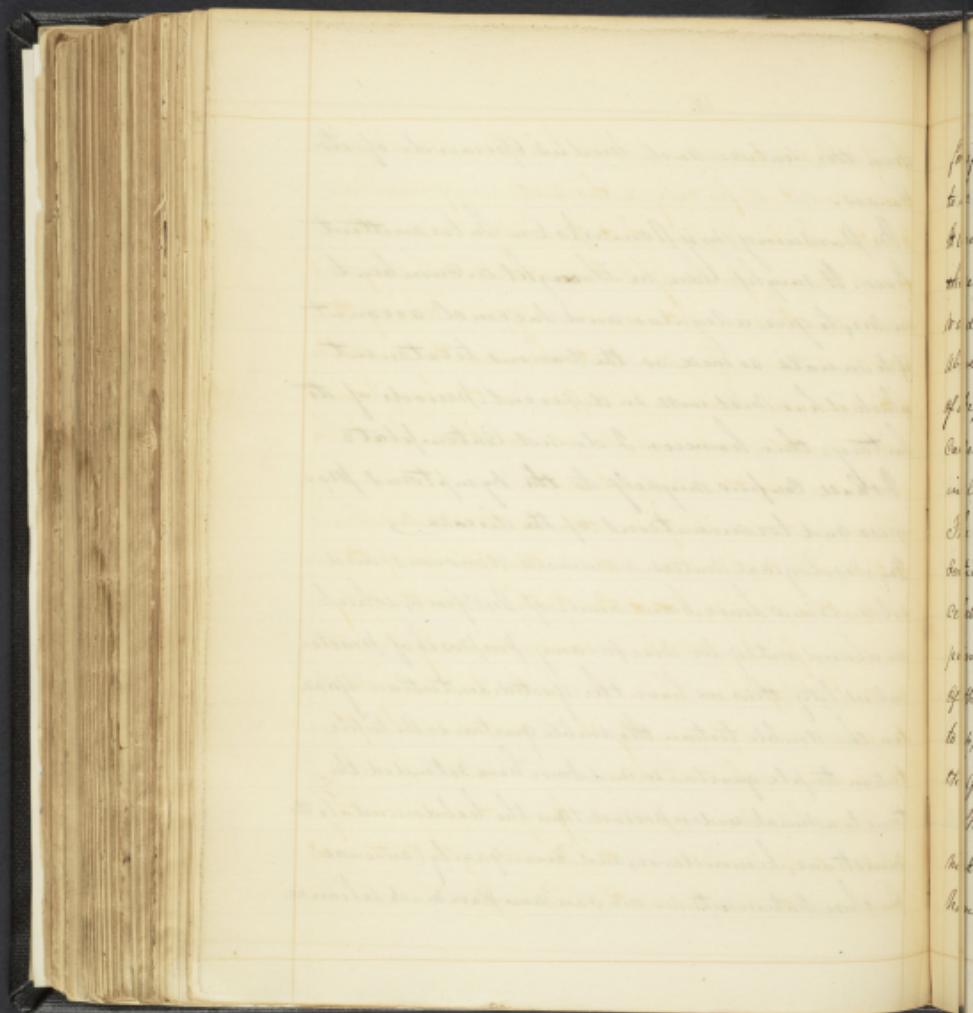
mysterious guidance every part of the system appears to observe the most severe Obedience, the morbid actions we induced are by the mystic process of sympathy conveyed throughout the whole system, but how or in what precise precise manner all this is done, how a chill and then a fever and there recurring at certain and defined intervals of time, I believe has never been intelligibly explained. Nor will this be done with our present stock of physiological knowledge. It has been asserted that exposure to cold, particular
 loaly when combined with moisture is one source of this complaint. I am disposed however to think that this is a very rare cause else we should meet with it often in high latitudes and also in the middle of winter. On the contrary it is a complaint almost peculiar to warm climates and to the warmer seasons of the year!

It is fortunate for us that the treatment of Intermittent fever is far better understood

than the nature and Modus Operandi of its
Causes.

In pursuing my Remarks on Intermittent
fever. It might here be thought convenient
on my part to give a regular and succinct account
of its annuals as well as the various treatment
which it has met with in different periods of its
history - this however I do not Contemplate
I shall confine myself to the symptoms pro-
gress and terminations of the disease.

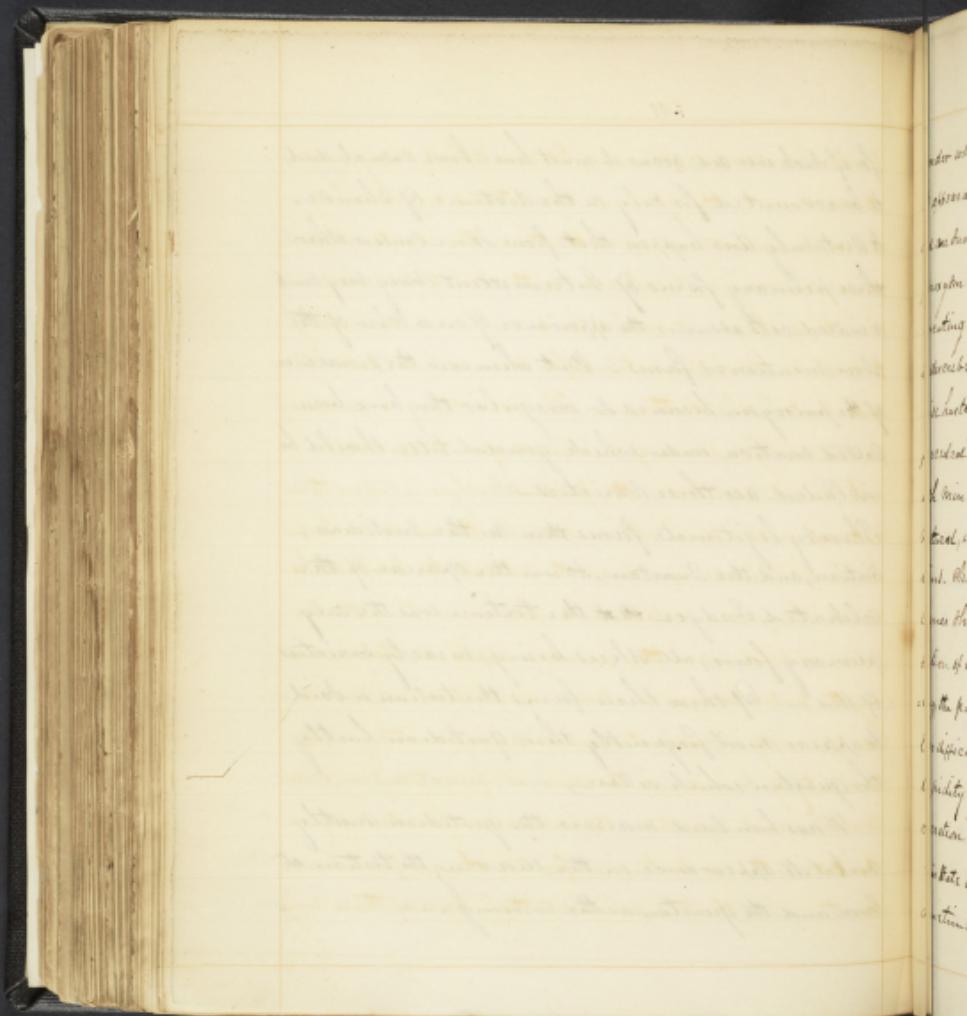
By Pathological writers numerous divisions and
sub divisions have been made of Int' fever, which
are abundantly too fine for any purposes of practical
utility thus we have the quotidian, tertian Qua-
rtan the double tertian the double quartan &c the triple
tertian triple quartan &c some have extended the
term to a much wider period thus the hebdomadal the
menstrual, bimensual, and even yearly (annual)
On these statements no one can now place much reliance



so if such ever did occur it must have been casual and to be accounted for only on the doctrine of chance.
 Certainly does happen that from some cause or other these primary forms of Intercurrent vary very much & indeed as to assume the appearance of one or other of the above mentioned forms - But whenever the recurrence of the paroxysm becomes so irregular they have been called erratica under which general title should be included all these varieties -

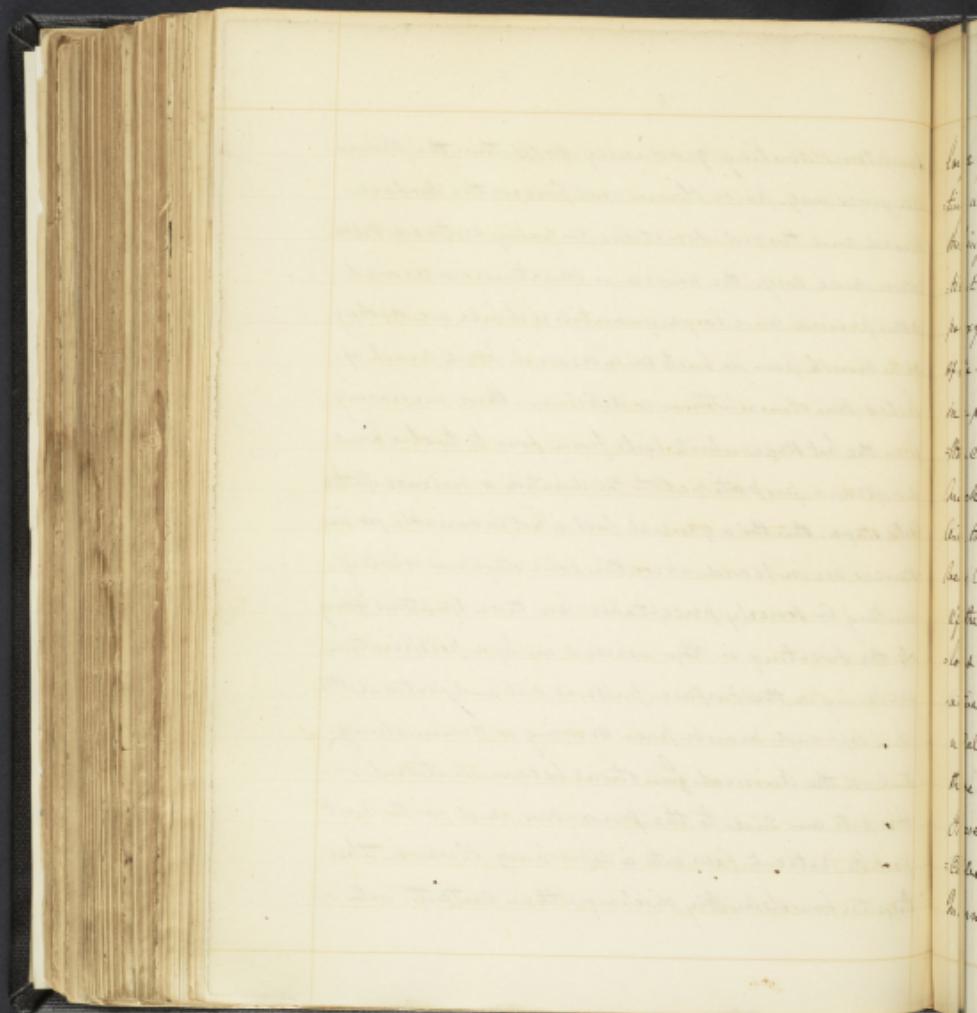
The only legitimate forms then are the quotidian, tertian, and the quartan, & was the opinion of the celebrated Fadias that the tertian was the only primary form, all others being merely varieties of this - Of these three forms the tertian is said to appear most frequently than quoted on lastly the quartan which is rare,

It has been said moreover the quotidian mostly makes its appearance in the morning the tertian at noon and the quartan in the evening.

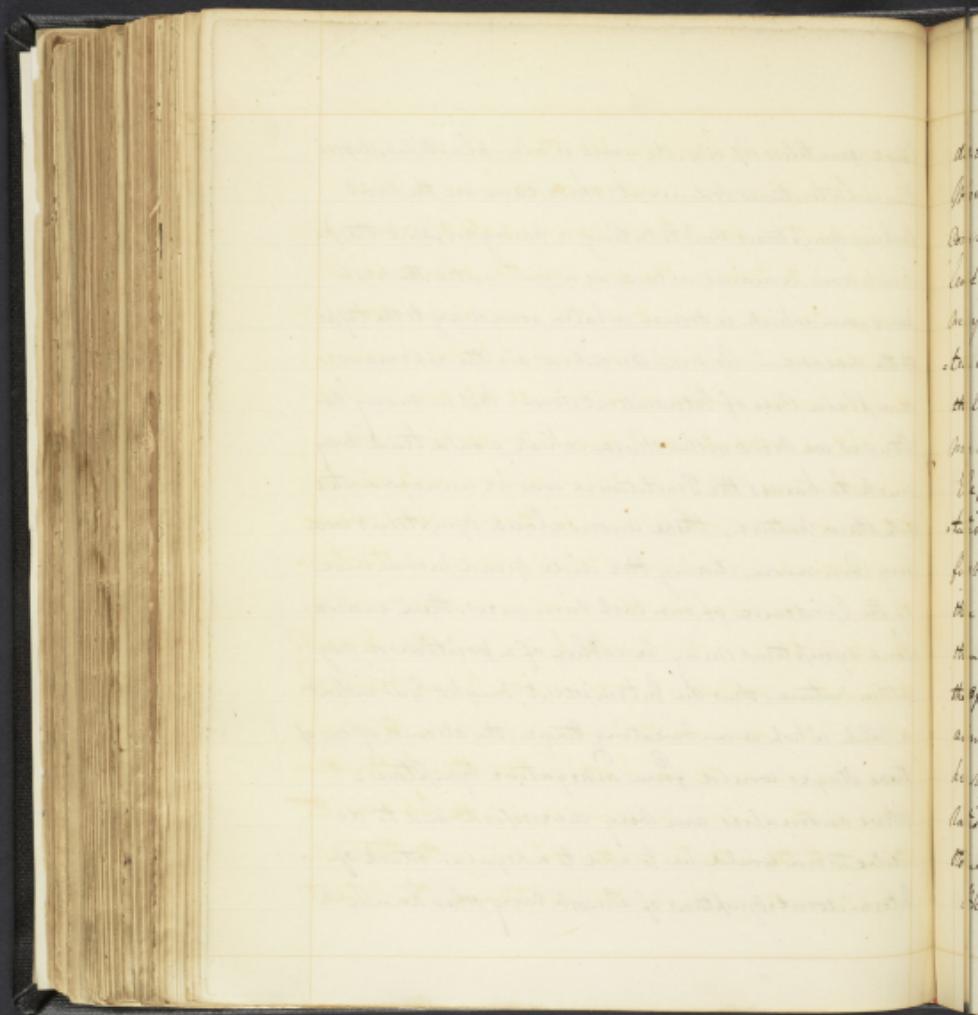


Under whatsoever form an Intermittent may make its appearance, the general Symptoms are similar, and are such as attend upon the three Stages into which a prolix Symptom may be resolved viz, the hot Cold and sweating Stage. It would be superfluous minutely to describe these Symptoms, for Connection's Baker will hastily sketch them. The Cold Stage is generally preceded by a sense of weariness of and oppression of both mind and body. the pulse is rather weaker than natural, with a dull obtuse pain in the head back and loins. Chilliness now seizes the patient. the Surface becomes shrunken pale and rough, imparting the sensation of cold when the hand is applied, then increasing, the pulse becomes weaker and quicker with more or less difficulty of respiration, nausea & vomiting with torpidity of mind, all the animal functions impeded secretion and excretion stopped, or nearly so. and all this State of things continues for two three or four hours sometimes a shorter period. then one of these Symptoms

Symptoms abating, gradually go off, then the Chilliness gives way, pulse slower and fuller the surface relaxed and tinged, secretions partially restored, Respiration more easy, the haemera is sometimes increased at this period and large quantities of bile are discharge by mouth, pain in back &c increased head & neck affected sometimes Convulsions or delirium - these increasing from the hot stage, which lasts from four to twelve hours it is often proportional to the duration or violence of the Cold stage, this tho' a general fact is not invariable for instances are on record where the cold stage was wholly wanting or scarcely perceptible, as these symptoms going off the sweating is now ushered in by a perspiration appearing on the surface, pulse is soft and natural the skin soft and moist, pain ceasing or diminishing, and as the animal functions become natural this puts an end to the paroxysm, and for the most part the patient falls into a refreshing sleep, in this stage the bowels mostly discharge their contents, with



large quantities of bile, the urine is also plentiful, depriving a latencies sediment, there then are the most striking symptoms constituting a paroxysm, and the patient how remains as well as usual until the next paroxysm, which is sooner or later according to the type of the disease - As now described are the appearances in a plain Case of Intermittent fever - But in many instances we meet with those which would tax very much to harass the Practitioner were he unacquainted with their nature, these anomalous symptoms were very common during the wide spread prevalence of the Epidemic of our last summer, these anomalous symptoms may be either of a positive or negative nature thus an Intermittent might exist without a cold a hot or an sweating stage, the absence of one of these stages would form a negative symptom - These anomalies are very diversified and to describe them would be to add to a regular attack of Intermittent symptoms of almost every other known disease.



disease so diversified are they -

When this fever is epidemic nothing is more common than for it to be complicated with, or at least for it to take on the form of, the disease which may be then prevalent; hence we have it associated with agouty diarrhoea, hepatitis &c during the late autumn a case of Intermittent fever under my notice attended by complete loss of vision.

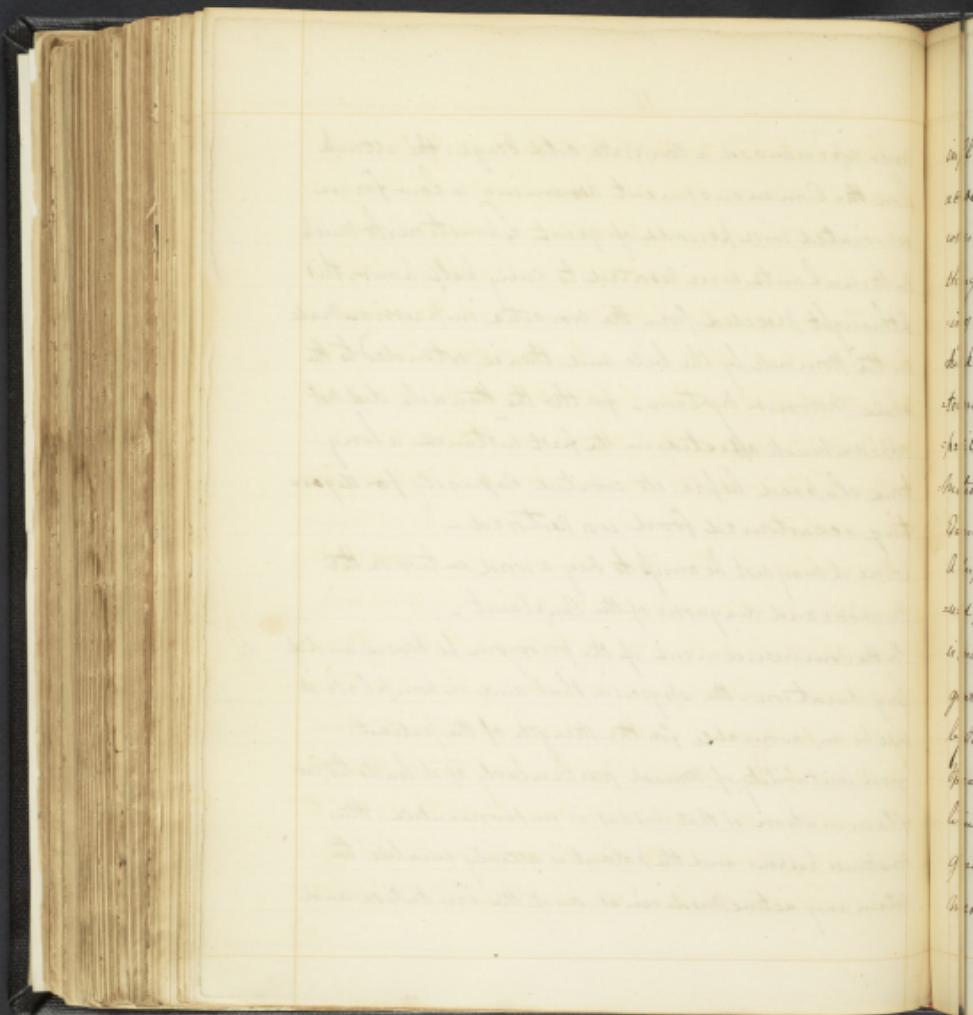
The patient an elderly lady of very delicate constitution attacked with obscur^{intermittent} for twelve hours from her first attack her sight was totally gone. at this time there was no appearance of nausea - in preference then to disturbing this organ by an emetic, I waited the operation of Calomel & siccij which I had previously administered in less than an hour from its loss her vision was restored I attributed this to the operation of the Calomel conveying the bile from the stomach to the intestines thus relieving the stomach. What was singular in this instance the patient

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Never experienced a complete cold stage. the attack from the commencement assuming a low form associated with periods of great exhaustion, so much debilitants were reported to every half hour, this I thought proceeded from the narcotic impressions made on the stomach by the bile and thence extended to the whole nervous system - for tho' the stomach did not appear much affected in the first instance a long time elapsed before its wonted capacity for digesting accustomed food was restored -

And it may not be amiss to say a word or two on the Prognosis and diagnosis of the Complaint -

In the commencement if the prostration be severe and of long duration - the apoplexia that and incomplete will be unfavourable for the strength of the patient. great irritability of stomach particularly if it leads to inflammation of that viscus is unfavourable, this sometimes happens and the patient is utterly unable to retain any active medicine at. and the irritation and



inflammation until the patient sinks prostrate such case took place in my neighbour hood last summer when a very intelligent Practitioner declared every thing he could devise was utterly incapable of allay ing the irritability of the stomach, and the patient sunk exhausted - He had in a low feeble state of Intermittent of some standing indulged too far his appetite producing as was supposed irritation & inflammation of stomach, tho' never ascertained by post mortem examination -

A disposition in this fever to run into a low continued form is also unfavourable hence a quotidian is more difficult of cure than a tertian a tertian than a quartan - Delirium and Convulsions are mentioned by some as unfavourable occurrences - First when breaking of the Epidemic of Bengal days, when delirium occurred as an early symptom the patients generally died in the fourth paroxysm - last summer while in the Country one of my neighbours

Sent for me, I found him labouring under an attack
Of irregular intermittent. when I saw him he had
afte the most a tense pulse, about thirty five, a wild
aspirated appearance, and slight delirium. I at
once took from his arm eight or ten ounces of blood,
this relieved him immediately. he was on the use
of astringents for what he called a dysentery which
on inspection proved a diarrhoea the discharges con-
sisting chiefly of bile tinged with blood - perceiving
this a natural effort of the system to rid itself of the
offending cause I cut off the astringent article, al-
lowed the bile to purge him thoroughly, and he soon
got entirely free. here there was delirium from the very
onset of the attack and yet a milder case I never
saw. The favourable omens are the reverse of the above.
Of the diagnosis of this complaint nothing need be
said - there is but one disease with which it can be at all
confounded by Hectic fever - indeed there is no similarity
existing between the two, during each is preceded by a

and the first time I have seen it. It is a
large tree with a very large trunk and
the bark is very rough and thick.
The leaves are large and broad and
the flowers are white and very
fragrant. The fruit is round and
sweet. The wood is very hard and
heavy. The bark is used for
making ropes and the wood
is used for making furniture.
The tree is very common in
the forest and is found in
many parts of the country.
The tree is very tall and
has a very long life. The
tree is very useful and
is very valuable.

This followed by a short interval &c - Intermittent fevers attacking a previously weak or debilitated Constitution may be considered unfavourable - though there are some exceptions - for it has happened that Insanity and Phthisis have been cured or much relieved in this way - As above described then after the Complaint has fairly got in it will have a longer or shorter course depending on the practice instituted -

If the vitality of the Constitution has not been previously impaired in a great majority of cases this Complaint will terminate rapidly, it will however sometimes happen in opposition to the best advised plan of treatment and the most arduous endeavours that some of these Cases will prove very obstinate and unyielding continuing for a great length of time in an irregular manner, gradually wearing down, and undermining the strength of the patient, and even when finally relieved it will be found to have laid

Butterfield - a nation wide a number of
which have been given a position in
the campaign decided to support and
serve him fully - with him both as a
leader a work and with which had much to
do with his success. He was not a man
of much tact, but he had a good deal of
energy and a strong will to do what he
thought right. He was a good speaker and
had a good deal of influence over his
followers. His speeches were always full
of enthusiasm and energy and they were
well received by the people. He was
a good leader and a good speaker and
was well liked by the people.

the foundation for other and more dangerous complaints
which in course of time may carry off the Patient.

Hence as sequelae to Intermittent fever we have to
contend with general and local dropties. Splenitis, Hec-
patitis, congestions, typhus feb, and other low forms of
disease.

I shall now enter on the treatment of Intermittent
this has been exceedingly various in different count-
ties and in different stages of the world. It would
be wholly without my province in this place to detail
the obsolete and fantastie treatment to which this
fever has been subjected at different times and this
more so the absurd and antiquated theories upon
which such treatment was founded. I shall there-
fore content me by noticing the more appropriate
practice of the present time - particularly such as I
have had an opportunity of seeing myself.

The treatment naturally divides itself into that
proper during a paroxysm and that during the

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apysxia, the treatment varies also in the different stages of the paroxysm. But in the cold we can do very little and fortunately very little is here required - the only indication is to bring about the hot stage as soon as possible, warm drinks, warm applications, balsam. In such cases as sometimes hard recourse to, these means cannot not to be pushed so as to increase the expected hot fit smoties are doubtful in this case particularly if the depression be great. When the hot stage has been induced our indications are no less plain than in the former, viz to allay fever and irritation and guard against local determination. To fulfill these indications - first then concrection is in many instances to be resorted to and this occurs most naturally but from a being limited & observation this appears to me very seldom requisite, particularly as the disease abated last summer. I am informed since highly respectable Practitioners very rarely or never employ it - when however the head is much affected & often

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local determinations threaten the lands must not be neglected; in the contrary it here stands preeminent among our remedial resources. To relieve irritation and calm excitement and emetic may follow the bleeding this has been the established mode of commencing the treatment of Putridness for a long time -

active purges not only relieve the stomach and bowels of their irritating contents, but also distract from the insulating mass of fluids various cooling diaphoretic are now also resorted to - I do not know whether I got the idea from Hency or reflection - but it has often appeared to me when walking the wards of our hospitals and seeing patients at the same time under the effects of purgative medicines also taking various diaphoretic articles and observing observing the difficulty of producing perspiration as well as perspiration under such circumstances - that this plan must certainly be dangerous - for it is now generally admitted that most of our remedies act by a stimulating

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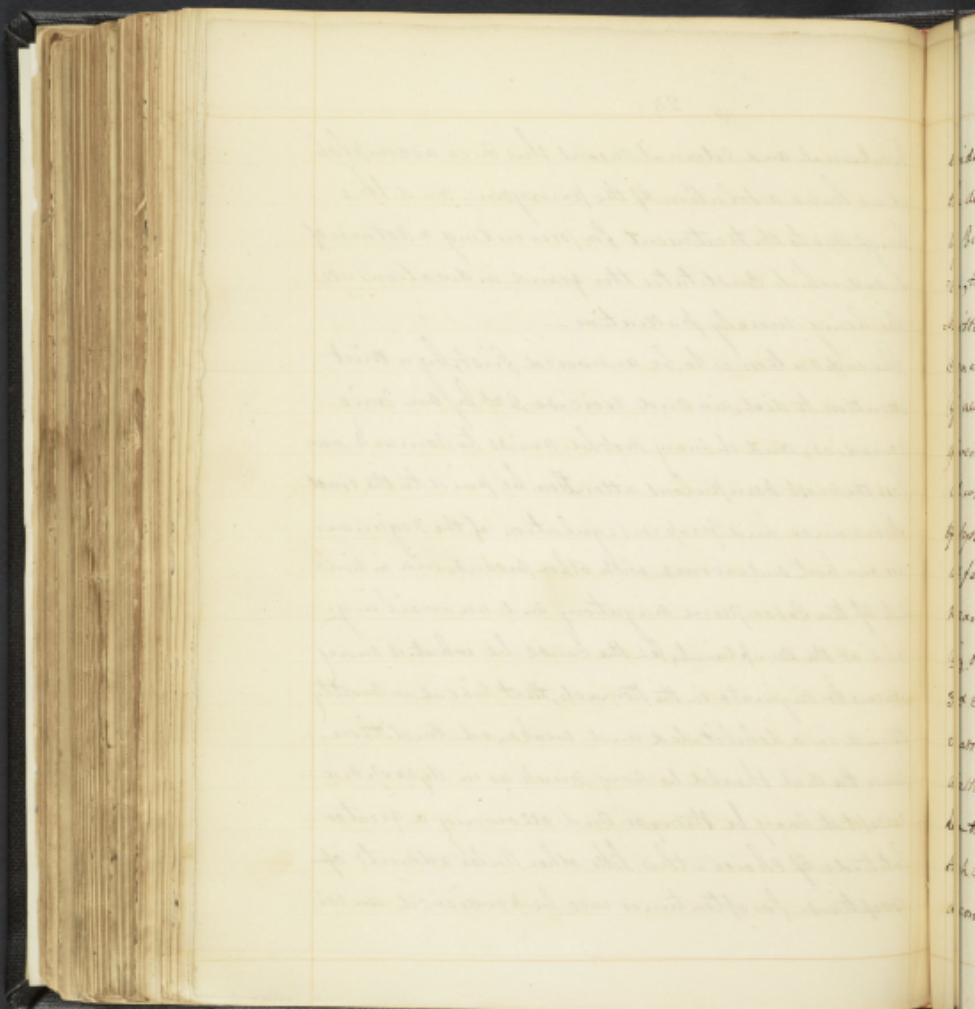
Operation directly or indirectly. It is however said that two operations of dissimilar nature can not go on in one and the same system at once and the same time without interfering, if this be true this practice does not on sound physiological views - It is stated some where, and apparently with some force, that the exhibition of purgatives during the hot stage, at least is of doubtful efficacy tending to increase the heat and irritation - a principle this appears rational I however have never witnessed these ill effects - admitting it to be the case, we are in a greater dilemma than ever, what are we to do - It certainly would be productive of more injury and irritation to allow the noxious contents of the stomach and bowels to remain until a solution of the fever, than to risk the consequent irritation of a purge - again in continued fever and other diseases we do not experience their ill effects, and if we did we could not omit them - the first purgages being cleared we indeavour to bring about a perspiration

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by internal and external means this will be accomplished
and we have a solution of the paroxysm - and this
brings us to the treatment for preventing a return of
it, and which constitutes the grand indication, are
the being merely palliative -

This indication is to be answered first, by a strict
attention to diet, air and exercise, 2^d by our tonic
remedies, and it may not be amiss to remember怎
less the most scrupulous attention be paid to the exact
assurance and proper regulation of the regimen.
as our best endeavours with other means will in nine
out of ten cases prove nugatory and unavailing.
and at the complaint, let the cause be what it may
appear to originate in the stomach, that bilious is mostly
found in a debilitated and weakened condition.
hence the diet should be very much as in Hypochondria
& Capital may be stronger and allowing a greater
latitude of choice - this like other rules admits of
exceptions for often times will be perceived an evi-



obvious inflammatory diathesis prevails, in such case
the diet should be simple and weak, until aided
by emetication and purging &c we overcome such tendency,
this disposition is not infrequent in tertial inter-
mittents having however obviated all objections we
come to the use of Medicines -

If all the points of argument in this Disease no-one had
given rise to more difference of opinion than the question
as what period of the complaint or in what precise state
of System are we to commence with Medicines?

As far as my judgement will go this period is by no
means a fixed one, it is varied by several Circumstances
by 1st season of the year - 2^d nature of the Epidemic -

3rd Climate - 4th age of Patient - 5th Constitution -

Season - It has just been remarked that an inflammatory
diathesis is generally attendant on tertial Intermittents
less then we are prevented from resorting to tonics until
such Inclination be more or less allayed and before we can
accomplish this in many cases the second or third part

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Paroxysms may have passed by - here then we cannot use tonics until the third alyxia - Of the cases which have fallen under my immediate cognizance I saw but one in which I resorted to the Peruvian Bark until after the second alyxia - In the latter part of summer we see but little of this disposition on the other hand an opposite tendency is more to be observed in some of these cases we administer tonics from the very commencement. Indeed it was the opinion of the celebrated Heberden that bark was not injurious in any period or in any stage of the Complaint.

Nature of the Epidemic - This differs in different districts. thus at one season it will be ~~of~~^{an} inflammatory at another not by & even typhoid. in the one case we resort after two or three paroxysms in the other much earlier to tonic Remedies.

Climate - In hot climates it is for the most part more malignant and rapid in its progress - so much so some writers on tropical climates assert that in some

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sittances they have recourse to tonics immediately one author (whose name I disremember) says he administered the Bark before the remission was complete, and says he was obliged to do so on account of the great tendency of that Climate (one of the East Indies) to turn into a low fever - again other places are recorded where the bark was given before any attention had been paid to cleansing the alimentary canal -

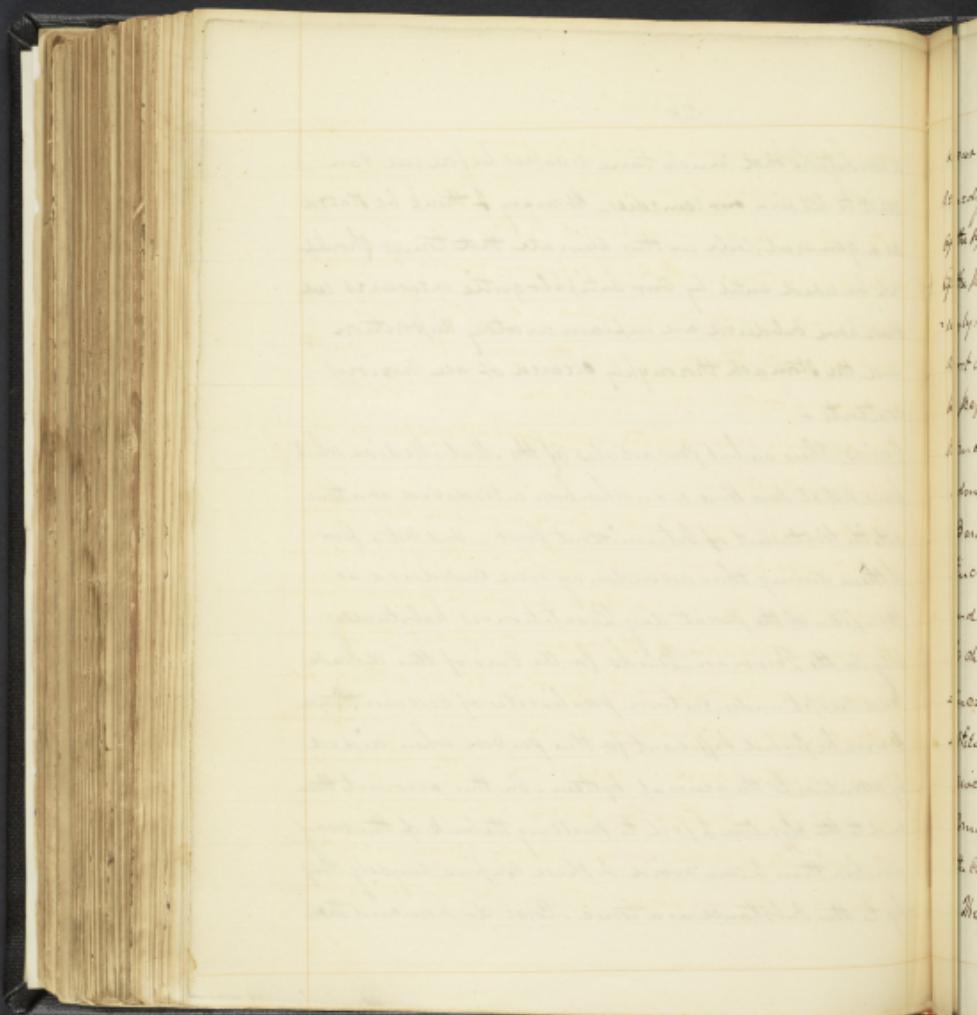
Age - The prolix period soon commencing with tonics is different in Children from what it is in adults in Children it is more apt to be inflammatory, and we defer them not for three days in old people the course will be found equally true -

Constitution - The diversity in the constitutions of different patients will also vary this period - thus in stout robust patients it will be best to purgat the system or we find in bark or other tonics, while debilitated and cachectic habits will not bear with impunity this delay - The stomach also is at times in too irritable a

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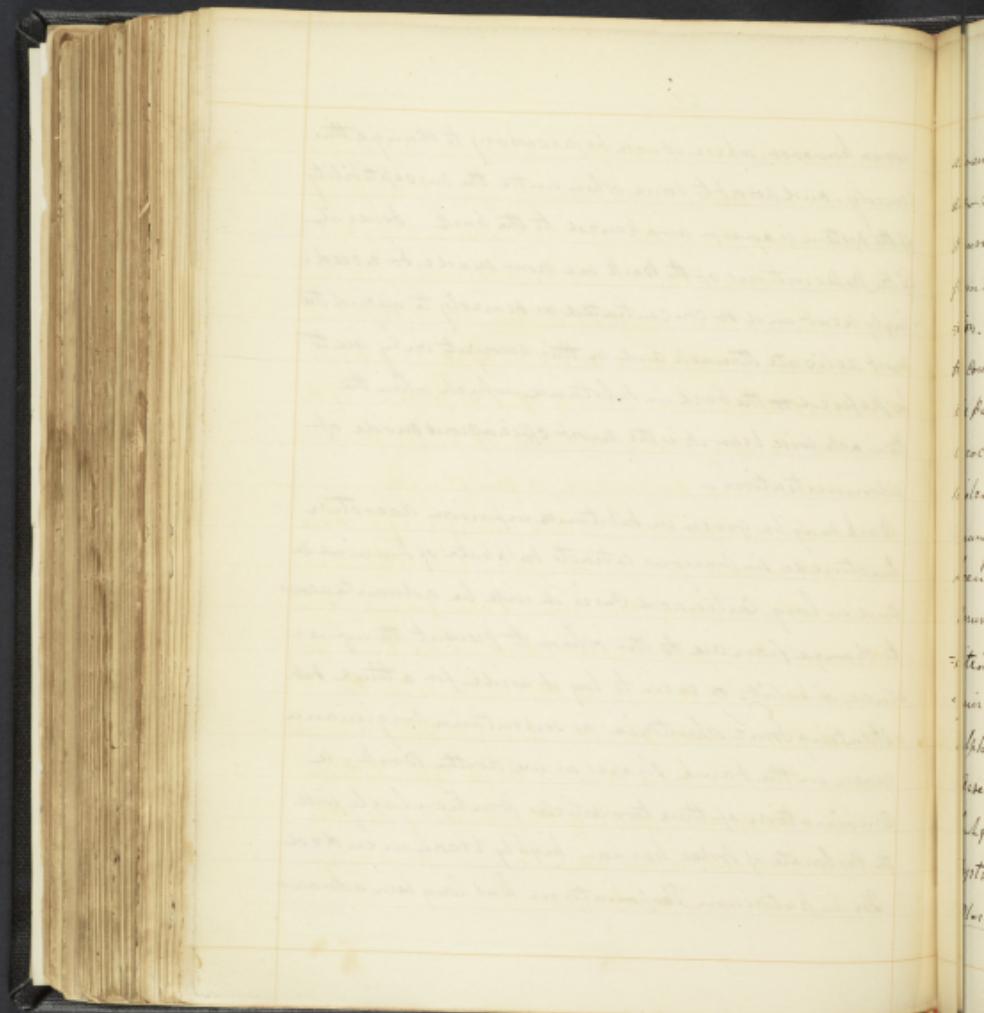
a condition that much time elapses before we can get it to retain our remedies. It may I think be stated as a general rule in this climate that tonics should not be used until by our antiphlogistic measures we shall have subdued all inflammatory disposition and the stomach thoroughly cleared of all noxious contents -

Tonics. There are but few articles of the Nat. Medicea which have not at some time or another been introduced as a tonic into the treatment of Intermittent fever - And not a few of them during their ascendancy were considered as specific - At the present day Practitioners habitually rely on the Peruvian Bark for the cure of this disease and except under certain peculiarities of circumstance twice be found sufficient for this purpose when aided by attention to the general system - On this account then and to the objection I feel to dwelling the bulk of this essay further than I can avoid I shall confine myself chiefly to this substance as a tonic - Cores do now and then



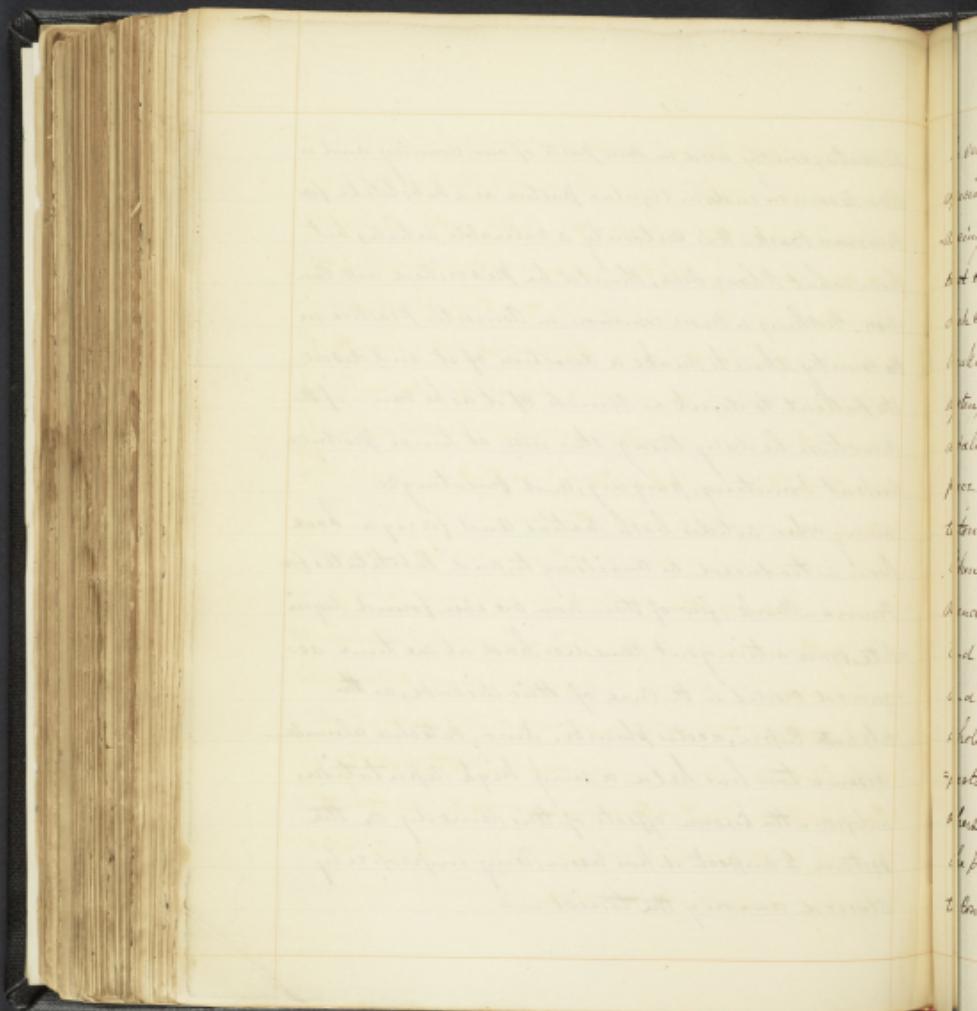
succur however where it will be necessary to change this remedy and resort to some other until the susceptibility of the system is again awakened to the bark. Several of the preparations of the bark are now made to succeedingly heat and to concentrate as scarcely to offend the most delicate stomach and on this account only are to be preferred to the bark in substance, which when the stomach will bear it, is the most efficacious mode of administration.

Bark may be given in substance infusion decoction tincture &c in various extracts sulphate of Liniment &c and in long continued cases it will be advantageous to change from one to the other to prevent the infrequency of habit or even to lay it aside for a time substituting some other tonic as Sanguinaria Virginiana given in the same shapes as we do the Bark. A combination of these two articles particularly with the Carbonate of Soda has been highly recommended. The Eupatorium Perfoliatum has long been advo-



advantageously used in some parts of our Country, and is also known in regular practice as a substitute for Peruvian Bark. It is certainly a valuable article, but from what I have seen, should be prescribed with caution. Nothing is more common in domestic practice in the Country than to make a decoction of it and desire the patient to drink as much of it as he can if the decoction be very strong this will at times produce violent vomiting, purging, and sweating &c.

Many other articles both native and foreign have been introduced as auxiliary to, and substitutes for Peruvian Bark - few of them now are ever found required - some contingent remedies had at one time acquired credit in the cure of this disease, as the Sulphate Cupri, acetas plumbi, Aino, Catechu alumine. Arsenic too has held a very high reputation, but from the known effects of this remedy on the system I suspect it has been very improperly used among the tonics —



In certain obstinate and protracted cases of this complaint especially when depending on various irregularities, preceding relapse after relapse. It will sometimes happen that this course of treatment will altogether fail us such cases have been successfully treated by merely breaking up and destroying the madd peculiarities of system, upon which the disease now depends; even if a salivation does not effect so much it will probably place the system in such a condition that a recurrence to tonics will now finish the cure.

When such means prove abortive it has been recommended to send the patient on a long journey and by thus changing his air, food, exercise, scenes, and company to bring about a revolution of his whole system this will meet our most ardent expectation, in some cases, but unfortunately in others after a protracted bilious Intermittent the poor patient will be too much debilitated to comply with such advice.

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